

BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE ELECTRICAL DIVISION

Name of Work:-Detailed Estimate for Providing and installing LED Street lights Control Switches nd wires in ward no 10 doddabomasandra vidyaranya pura sub division

Budget Head

Division No.....

Estimate No.

For Rs.

2000000.00

Sl. No.	SR Page & SL No	Description of Work	Unit	Qty.	Rate	Amount
1	55/7.4.5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs	4300	140.40	603720.00
2	61/7.8.1	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs	4300	10.80	46440.00
3	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs	3600	78.00	280800.00
	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 25 sqmm to 75 sqmm	Mtrs	500	16.20	8100.00
4	47/6.16.2	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b)40-63 Amps SP, Group 'A'	Nos	152	418.00	63536.00
5	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	40	132.00	5280.00
6	6/2.6.2	1.5 sqmm	Mtrs	1800	15.90	28620.00
7	55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Nos	3	2727.00	8181.00
8	45/6.7.4	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Nos	9	360.00	3240.00

9	62/7.12.3	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. b)50mm	Mtrs	60	391.00	23460.00
10	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcms	90000	0.33	29700.00
11	49/6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Nos	60	263.00	15780.00
12	55/7.3	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.I GI Strip. B)25X3mm	Nos	10	77.00	770.00
13	62/7.13.2	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.16 Sq mm	Mtrs	3	280.00	840.00
14	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (lcu = lcs) THREE POLE 100Amps25kA.	Nos	3	4044.00	12132.00
15	AR	and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application ,smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other	Nos	3	51500.00	154500.00
16	64/7.21.7	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	936	20.59	19272.24

17	18 pwd sr 14-15	Providing Rcc Pole pedestal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	Nos	155	4199.00	650845.00
18	2/2.16 BESCOM Sr 18-19	providing spiral earth electrode type earthing along with pole with charcoal, salt etc.(165+61=226)	Nos	155	226.00	35030.00
19		Mislenious Rs				9753.76
		Total				2000000.00

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 /lowest quotation rates/ approved Rates

Asst. Engineer (Elec)

Asst. Exe. Engineer (Elec)

Sub-Division No.

Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)

YALAHANKA DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Approval

Accorded For Rs 20.00 Lakhs only
Head of A/C. P1771
CER NO : 78 Dt: 25.07-2019

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CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakhs
Rupees Twenty Lakhs only
Under P1771 Zone Works pow
WORKS -
Registered as CE () No. 9 9
Subject to BBMP/CE/42/AS/78/19-20
enclosed memo Dt. 25.07-2019
BBMP/CE/ELE/42/TS/05/2019-20 Sanctioned
Dated 25.07-2019 Rs. 20.00 Lakhs
Executive Engineer